

AN OPTICAL LENS SYSTEM FOR PROJECTING LIGHT IN A LAMBERTION
PATTERN FROM A HIGH POWER LED LIGHT SOURCE

ABSTRACT OF THE DISCLOSURE

An optical lens having a body with a front face and a rear cavity for cooperatively receiving and optically aligning a high power light emitting diode source with respect to a primary central optical axis of the lens. Reflective inner side walls of the body project light in a lambertian pattern from the front face at an angle to create a central hot spot. The body includes at least one side flange which is cooperatively received in a guide of a lens holder and further includes a non-optical annular rim extending from the front face for cooperatively seating with the lens holder.